### PATENT COOPERATION TREATY

From the	TONAL SEARC	HING AUTHO	OR ITY		-			
INTERNATIONAL SEARCHING AUTHORITY  To:     JULES E. GOLDBERG, ESQ.     REED SMITH LLP     599 LEXINGTON AVENE				PCT				
NEW YORK, NY 10022				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
				(PCT Rule 43 <i>bis</i> .1)				
				Date of mailing (day/month/year)				
Applicant	's or agent's file r	eference		FOR FURTHER ACTION See paragraph 2 below				
500561.20			International films data					
International application No.		0.		ing date (day/month/year) Priority date (day/month/year)				
PCT/US04		ication (IPC) o	21 June 2004 (21.06.20) or both national classification					
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IPC(7): A Applicant	61K 31/555 and U	JS Cl.: 514/18:	5					
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L REDOX F	HARMACEUTIC	CAL CORPOR	RATION					
1. This o	pinion contains is	ndications rela	ting to the following item	18:				
	Box No. I Basis of the opinion							
	Box No. II	Priority						
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	Box No. IV	Lack of unity of invention						
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI	Certain documents cited						
	Box No. VII	Certain defects in the international application						
	Box No. VIII	Certain observations on the international application						
2. <b>FUR</b>	THER ACTIO	N						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.								
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
For further options, see Form PCT/ISA/220.								
3. For further details, see notes to Form PCT/ISA/220.								
Name and mailing address of the ISA/ US  Date of completion of this opinion   Authorized officer								
1	mailing address of Mail Stop PCT, Attr		Date of comple	etion of this opinion	Authorized officer / WChile			
Commissioner for Patents 09 No			09 November 2	2005 (09.11.200 <b>5)</b>	Shehjun Wang			
P.O. Box 1450 Alexandria, Virginia 22313-1450					Telephone No. (571) 272-1600			
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Form PCT/ISA/237 (cover sheet) (April 2005)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/19812

Box No. I Basis of this opinion							
1. With regard to the language, this opinion has been established on the basis of:							
the international application in the language in which it was filed							
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).							
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
a. type of material							
a sequence listing							
table(s) related to the sequence listing							
b. format of material							
on paper							
in electronic form							
c. time of filing/furnishing							
contained in the international application as filed.							
filed together with the international application in electronic form.							
furnished subsequently to this Authority for the purposes of search.							
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In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.							
4. Additional comments:							
Form PCT/ISA/237(Roy No. 1) (April 2005)							

## - WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/19812

Box No. V	Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial
	applicability; citations and explanations supporting such statement

1. Statement		
Novelty (N)	Claims <u>5-7, 9-14</u>	YES
	Claims <u>1-4, 8</u>	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-14	NO
Industrial applicability (IA)	Claims 1-14	YES
	Claims NONE	NO

#### 2. Citations and explanations:

Claims 5-7 and 9-14 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach expressly the particular virus, or diseases herein.

Claims 1-14 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Claims 1-4 and 8 lack novelty under PCT Article 33(2) as being anticipated by Silverstein et al (WO 01/05396). Silverstein et al. teach a method of using a composition comprising cobalt chelates, such as CTC-96, for treating and/or preventing viral infection, wherein the virus may be enveloped virus and non-enveloped virus. Silverstein et al. specifically teach that the method is particularly useful against papilloma virus.

Claims 1-4 and 8 lack an inventive step under PCT Article 33(3) as being obvious over Silverstein et al. in view of Dori. Silverstein et al. teach a method of using a composition comprising cobalt chelates, such as CTC-96, for treating and/or preventing viral infection, wherein the virus may be enveloped virus and non-enveloped virus. Silverman et al. specifically teach that the method is particularly useful against papilloma virus. Silverstein further teaches that the cobalt chelate containing composition may be in various dosage forms known in the art, such as an aerosol, an inhalant, a solution, a powder, an ointment, an aqueous suspension, etc. Silverstein et al. do not teach expressly topical application, or the particular virus recited herein. However, Dori teaches that the cobalt chelates herein are known as wide spectrum antiviral agents and are known to be administered by topical application. Therefore, it would have been obvious to employ the cobalt chelates, such as CTC-96, for treating and/or preventing any papilloma virus infections or diseases caused by such infections. The selection of proper route for administering a therapeutical agent is considered within the skill or artisan.

Form PCT/ISA/237 (Box No. V) (April 2005)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where onginally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originælly there were 15 claims and after amendment of all claims there are [1]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims I to 6 and I4 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
  "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

### It must be in the Language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.